

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Re application of:** Chen et al.

**Application No.** 10/017,702

**Filed:** December 14, 2001

**Confirmation No.** 5737

**For:** QUANTIZATION MATRICES FOR  
DIGITAL AUDIO

**Examiner:** Donald Storm

**Art Unit:** 2654

**Attorney Reference No.** 3382-61342-01

**CERTIFICATE OF MAILING**

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP ISSUE FEE, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney  
for Applicant(s)

Date Mailed February 18, 2005

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**TRANSMITTAL LETTER**

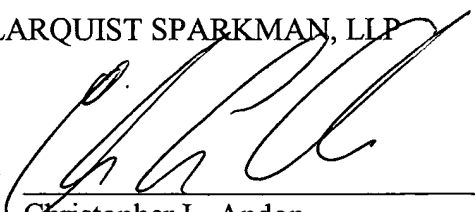
**Enclosed for filing in the above-referenced application are the following:**

- ☒ In connection with issuance of a patent:
  - ☒ Form PTOL-85b
- ☒ Comments on Restriction Requirement
- ☒ Comments on Statement of Reasons for Allowance
- ☒ Advance order of 3 copies (Fee \$9.00)
- ☒ Issue Fee (\$1,400 lg. entity/utility)
- ☒ Publication Fee (\$300.00)
- ☒ A check in the amount of \$1,709.00 to cover the above-listed fees.
- ☒ The Director is hereby authorized to charge any additional fees that may be required in connection with issuance of a patent, or credit over-payment, to Account No. 02-4550. A copy of this sheet is enclosed.
- ☒ Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

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**COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE**

Responsive to the Statement of Reasons for Allowance in the Notice of Allowability dated February 10, 2005, the Applicants comment as follows. The Examiner writes:

The independent claims 1, 9, and 18 require generating patterns or pattern information by processing with critical band divisions as the basis for getting quantization weights for quantization band divisions that are not critical bands. The closest prior art that was found (Johnston, Smyth) describes differing quantization and critical bands; however, Johnston and Smyth determine adaptive quantization scale factors directly. That is, neither Johnston nor Smyth also describes quantization band weights computed from the critical band processing.

Nevertheless, the allowable subject matter of independent claims 1, 9, and 18 resides in the whole structure and interaction expressed by the combination of all limitations compared to the prior art of record. No particular reference provides relevant, objective evidence to make the claimed encoder, method, or medium, obvious by changing the closest prior art (Johnston, Smyth) way of determining and providing band quantization parameters to expression as weighting factors or weights, particularly with a proportion to pattern information (claims 1 and 18) or a quantization matrix (claims 1 and 9).

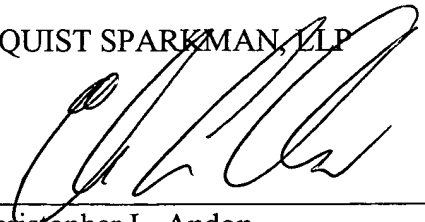
The Applicants agree that claims 1-23 are allowable, but the Applicants respectfully disagree with the Examiner's characterization of the claims and cited references. In particular, the Applicants

note that the claims are not limited by language that does not appear in the claims, but rather the actual language of the respective claims speaks for itself.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

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